

EXHIBIT A

CURRICULUM VITAE**Bert W. O'Malley, M.D.****BIRTHPLACE:** Pittsburgh, Pennsylvania**SOCIAL SECURITY NUMBER:** 208-28-2925**EDUCATION:**

University of Pittsburgh	1955-1959	B.S.
University of Pittsburgh School of Medicine	1959-1963	M.D. (Summa Cum Laude)
Duke University Department of Medicine	1963-1965	Internship & Residency
New York Medical College	6/5/79	D.Sc. (Honorary)
Karolinska Institutet Stockholm, Sweden	5/29/84	M.D. (Honorary)
The National University of Ireland	3/21/85	D.Sc. (Honorary)

RESEARCH AND PROFESSIONAL EXPERIENCE:

1973-present	Tom Thompson Professor and Chairman, Department of Cell Biology and Director of the Baylor Center for Reproductive Biology, Baylor College of Medicine, Houston, Texas
1969-1973	Professor and Occupant of Lucius Birch Chair and Director of the Reproductive Biology Center, Vanderbilt University School of Medicine, Nashville, Tennessee
1967-1969	Head, Molecular Biology Section, Endocrine Branch, NCI, NIH
1965-1967	Clinical Associate, NCI, NIH
1963-1965	Clinical Training in Internal Medicine, Dr. E.A. Stead, Duke University Hospital, Durham, NC

SOCIETIES:

National Academy of Sciences
 Institute of Medicine (I.O.M. of N.A.S.)
 American Academy of Arts and Sciences
 American Association for the Advancement of Science
 American Association for Cancer Research
 American Society for Biological Chemists
 American Society for Cell Biology
 American Society for Clinical Investigation
 American Institute of Chemists
 Endocrine Society
 Federation for Clinical Research
 Harvey Society

HONORS:

A.E.D., P.B.K., A.O.A. (Honor Societies)
 Ernst Oppenheimer Award, American Endocrine Society, 1975
 Gregory Pincus Memorial Medal, 1975
 Lila Gruber Cancer Award, 1977
 Distinguished Achievement in Modern Medicine Award, 1978
 Borden Award, Association of American Medical Colleges, 1978
 Dickson Prize for Basic Medical Research, 1979
 Philip S. Hench Award, 1981 - University of Pittsburgh

Axel Munthe Award in Reproductive Biology, 1982 - Capri, Italy
Distinguished Service Professor, Baylor College of Medicine, 1985
Bicentennial Medallion of Distinction, University of Pittsburgh, 1987
Fred Conrad Koch Medal (Endocrine Society), 1988
D.R. Edwards Medal (Cardiff, Wales), 1989
Duke University Distinguished Alumni Award, 1991
Eastman Kodak Award (N.A.C.B.) 1992
Doisy Lects. Biochem. (University of Illinois) 1993
Election to Fellow of A.A.A.S., 1995
William L. McGuire Memorial Lecture Award (University of Texas HSC, San Antonio) 1995
Baylor College of Medicine Distinguished Faculty Award, 1996
Fellow, American Academy of Microbiology, 1997
Sterling LCS (Boston), 1997

DISTINGUISHED SERVICE:

Endocrinology Study Section, NIH - 1970-1973
Chairman, Endocrinology Study Section, NIH - 1973-1974
Chairman, Gordon Research Conference on Hormone Action - 1975
Counsel, The Endocrine Society, 1975-1978
Chairman, CETUS-UCLA Symposium on Gene Expression - 1982
President The Endocrine Society, 1985
Chairman, AACR Conference in Cancer Research "Steroid Receptors, 1990
Transcription Factors, and Gene Expression" (San Diego, CA) 1990
Co-Organizer, Keystone Symposium "Steroid/Thyroid, Receptor" (Tamaron, Colorado), 1992
Organizer, NICHD Molecular Endocrinology Workshop (Houston, Texas), 1996
Elected, At-Large Member of the Council of the Gordon Research Conference, 1998

PATENTS:

No. 5,298,422 - 03/29/94 "Myogenic Vector Systems" by Robert J. Schwartz, Franco J. DeMayo and Bert W. O'Malley
No. 5,364,791 - 11/15/94 "Progesterone Receptor Having C. Terminal Hormone Binding Domain Truncations", by Elizabetta Vegeto, Donald McDonnell, and Bert W. O'Malley - licensed to GeneMedicine, Inc. & Ligand Pharm., Inc.
No. 5,571,691 - 11/05/96 "Production of Recombinant Lactoferrin and Lactoferrin Polypeptides Using cDNA Sequences in Various Organisms" by Orla M. Conneely, Denis R. Headon, Bert W. O'Malley and Gregory S. May, licensed to Agennix
No. 5,571,896 - 11/05/96 "Production of Recombinant Human Lactoferrin" by Orla M. Conneely, Denis R. Headon, Bert W. O'Malley and Gregory S. May, licensed to Agennix
No. 5,571,697 - 11/05/96 "Expression of Processed Recombinant Lactoferrin and Lactoferrin Polypeptide Fragments from a Fusion Product in Aspergillus" by Orla M. Conneely, Denis R. Headon and Bert W. O'Malley, licensed to Agennix
Pending: "Expression Vectors That Produce Steroid Receptors, Steroid Receptor Chimera, Screening Assays for Steroid Receptors and Clinical, Screening Assays for Steroid Receptors and Clinical Assays Using Synthesized Receptors and Receptor Vectors"
Pending: "Assays of COUP-Transcription Factor Interactions in Mammalian Systems"
Pending: "Method of Identifying Hormone Antagonists and Agonists"

PUBLICATIONS:

Over 600 items involving primarily studies of the molecular mechanism of steroid hormone action, hormone receptors, reproductive hormone regulation of synthesis of nucleic acids and specific proteins, and the organization, structure and regulation of expression of specific eucaryotic genes.

MANUSCRIPTS:

- O'Malley, B.W. and J.B. Field. Effects of ions and metabolic inhibitors on thyroid-stimulating hormone stimulation of glucose oxidation in thyroid slices. *Biochim. Biophys. Acta* 90:349, 1964.
- Mengel, C.E., B.N. Hyman, B.W. O'Malley and D.A. Howell. Coexistent paroxysmal nocturnal and cold hemoglobinuria preceded by aplastic anemia: a case report and family study. *Blood* 24:451-457, 1964.
- Mengel, C.E., H.E. Kann, Jr. and B.W. O'Malley. Increased hemolysis after in-tramuscular iron administration in patients with paroxysmal nocturnal hemoglobinuria. *Blood* 26:74, 1965.
- Mengel, D.C., L.G. Zirkle and B.W. O'Malley. Studies of the mechanism of *in vivo* RBC damage by oxygen. *Aerospace Med.* 36:1036, 1965.
- O'Malley, B.W. and H.J. Zeff. Disseminated bone tuberculosis without pulmonary manifestations. *Amer. J. Med.* 38:932, 1965.
- O'Malley, B.W. and M.B. Lipsett. Urinary ketosteroids in the Rhesus monkey. *Steroids* 8:711, 1966.
- O'Malley, B.W., C.E. Mengel, W.D. Meriwether and L.G. Zirkle, Jr. Inhibition of erythrocyte acetylcholinesterase by peroxides. *Biochemistry* 5:40, 1966.
- Kohler, P.O. and B.W. O'Malley. Estrogen-induced morphologic changes in monolayer cultures of immature chick oviduct. *Endocrinology* 81:1422, 1967.
- Kohler, P.O., B.W. O'Malley, P.L. Rayford, M.B. Lipsett and W.D. Odell. Effect of pyrogen on blood levels of pituitary trophic hormones. Observations of the usefulness of the growth hormone response in the deletion of pituitary disease. *J. Clin. Endocrinol. Metab.* 27:219, 1967.
- Korenman, S.G. and B.W. O'Malley. Avidin assay: a new procedure suitable for tissue fractions. *Biochim. Biophys. Acta* 140:174, 1967.
- Kulin, H.E., P.O. Kohler, B.W. O'Malley and W.D. Odell. Thyroid stimulating hormone in thyroid dysgenesis. *J. Pediatr.* 71:714, 1967.
- O'Malley, B.W. *In vitro* hormonal induction of a specific protein (avidin) in chick oviduct. *Biochemistry* 6:2546, 1967.
- O'Malley, B.W. and P.O. Kohler. Hormonal induction of specific proteins in chick oviduct cell cultures. *Biochem. Biophys. Res. Commun.* 28:1, 1967.
- O'Malley, B.W. and P.O. Kohler. Studies on steroid regulation of synthesis of a specific oviduct protein in a new monolayer culture system. *Proc. Natl. Acad. Sci.* 58:2359, 1967.
- O'Malley, B.W. and S.G. Korenman. Studies on the mechanism of hormone induction of a specific protein. Immunological identity and kinetic studies of avidin synthesized *in vitro* by the chick oviduct. *Life Sci.* 6:1953, 1967.
- O'Malley, B.W., M.B. Lipsett and M.A. Jackson. Steroid content and synthesis of a virilizing luteoma. *J. Clin. Endocrinol. Metab.* 27:311, 1967.
- O'Malley, B.W., W.L. McGuire and S.G. Korenman. Estrogen stimulation of synthesis of specific proteins and RNA polymerase activity in the immature chick oviduct. *Biochim. Biophys. Acta* 145:204, 1967.

- O'Malley, B.W., W.L. McGuire and P.A. Middleton. Structure-function relationships of various steroids relative to induction of specific oviduct protein (avidin). *Endocrinology* 81:677, 1967.
- O'Malley, B.W. and C.E. Mengel. Effects of *in vivo* hyperoxia on erythrocytes. V. Changes of RBC glycolytic intermediates in mice after *in vivo* oxygen under high pressure. *Blood* 29:196, 1967.
- Kohler, P.O., P.M. Grimly and B.W. O'Malley. Protein synthesis: differential stimulation of cell-specific proteins in epithelial cells of chick oviduct. *Science* 160:86, 1968.
- Korenman, S.G. and B.W. O'Malley. Progesterone action: regulation of avidin biosynthesis by hen oviduct *in vivo* and *in vitro*. *Endocrinology* 83:11, 1968.
- McGuire, W.L. and B.W. O'Malley. Ribonucleic acid polymerase activity of the chick oviduct during steroid-induced synthesis of a specific protein. *Biochim. Biophys. Acta* 157:187, 1968.
- O'Malley, B.W., A. Aronow, A.C. Peacock and C.W. Dingman. Estrogen-dependent increase in transfer RNA during differentiation of the chick oviduct. *Science* 162:567, 1968.
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- O'Malley, B.W. and W.L. McGuire. Studies on the mechanism of action of progesterone in regulation of the synthesis of a specific protein. *J. Clin. Invest.* 47:654, 1968.
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- O'Malley, B.W. Hormonal regulation of nucleic acid and protein synthesis. *Trans. N.Y. Acad. Sci.* 31:478, 1969.
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- Cohen, S., B.W. O'Malley and M. Stastny. Estrogenic induction of ornithine decarboxylase *in vivo* and *in vitro*. *Science* 170, 336, 1970.

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- O'Malley, B.W. Steroid hormones and the synthesis of specific proteins. *Excerpta Medica Int'l. Congress* 219:455, 1970.
- O'Malley, B.W., M.R. Sherman and D.O. Toft. Progesterone "receptors" in the cytoplasm and nucleus of chick oviduct target tissue. *Proc. Natl. Acad. Sci.* 67:501, 1970.
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- Means, A.R., I.B. Abrass and B.W. O'Malley. Protein biosynthesis on chick oviduct polyribosomes. I. Changes during estrogen-mediated tissue differentiation. *Biochemistry* 10:1561, 1971.
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